

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston

6310 Rothway Street

Houston, TX 77040

Tel: (713)690-4444

TestAmerica Job ID: 600-182400-1

Client Project/Site: Deer Park Water Samples

For:

Weston Solutions, Inc.

13702 Coursey Blvd.

Building 7, Suite A

Baton Rouge, Louisiana 70817

Attn: Mr. Jeff Wright



Authorized for release by:

3/25/2019 5:19:08 PM

Sachin Kudchadkar, Senior Project Manager

(713)690-4444

[sachin.kudchadkar@testamericainc.com](mailto:sachin.kudchadkar@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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Preliminary Data

## Method Summary

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

Method	Method Description	Protocol	Laboratory
8000	Chemical Oxygen Demand (COD) Colorimetric	Hach	TAL HOU

**Protocol References:**

Hach = Hach Company

**Laboratory References:**

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Preliminary Data

## Sample Summary

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-182400-1	ITC-BB-01-20190323-11	Water	03/23/19 17:55	03/25/19 06:26
600-182400-2	ITC-BB-02-20190323-11	Water	03/23/19 18:07	03/25/19 06:26
600-182400-3	ITC-BB-03-20190323-11	Water	03/23/19 18:15	03/25/19 06:26
600-182400-4	ITC-BB-04-20190323-11	Water	03/23/19 18:35	03/25/19 06:26
600-182400-5	ITC-BB-05-20190323-11	Water	03/23/19 18:25	03/25/19 06:26
600-182400-6	ITC-BB-07-20190323-11	Water	03/23/19 18:59	03/25/19 06:26
600-182400-7	ITC-BB-08-20190323-11	Water	03/23/19 19:25	03/25/19 06:26
600-182400-8	ITC-BB-09-20190323-11	Water	03/23/19 19:35	03/25/19 06:26

Preliminary Data

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

**Client Sample ID: ITC-BB-01-20190323-11**

Date Collected: 03/23/19 17:55

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-1**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	35.5		10.0	2.46	mg/L	-		03/25/19 12:09	1

**Client Sample ID: ITC-BB-02-20190323-11**

Date Collected: 03/23/19 18:07

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-2**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	69.2		10.0	2.46	mg/L	-		03/25/19 12:09	1

**Client Sample ID: ITC-BB-03-20190323-11**

Date Collected: 03/23/19 18:15

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-3**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	50.9		10.0	2.46	mg/L	-		03/25/19 12:09	1

**Client Sample ID: ITC-BB-04-20190323-11**

Date Collected: 03/23/19 18:35

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-4**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	53.2		10.0	2.46	mg/L	-		03/25/19 12:09	1

**Client Sample ID: ITC-BB-05-20190323-11**

Date Collected: 03/23/19 18:25

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-5**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	63.3		10.0	2.46	mg/L	-		03/25/19 12:09	1

**Client Sample ID: ITC-BB-07-20190323-11**

Date Collected: 03/23/19 18:59

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-6**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	64.0		10.0	2.46	mg/L	-		03/25/19 12:09	1

**Client Sample ID: ITC-BB-08-20190323-11**

Date Collected: 03/23/19 19:25

Date Received: 03/25/19 06:26

**Lab Sample ID: 600-182400-7**

Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	56.8		10.0	2.46	mg/L	-		03/25/19 12:09	1

TestAmerica Houston

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

**Client Sample ID: ITC-BB-09-20190323-11**

**Lab Sample ID: 600-182400-8**

**Date Collected: 03/23/19 19:35**

**Matrix: Water**

**Date Received: 03/25/19 06:26**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	54.1		10.0	2.46	mg/L			03/25/19 12:09	1

Preliminary Data

## Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

### Qualifiers

#### General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

## Method: 8000 - Chemical Oxygen Demand (COD) Colorimetric

Lab Sample ID: MB 600-261111/3

Matrix: Water

Analysis Batch: 261111

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	2.46	U	10.0	2.46	mg/L			03/25/19 12:09	1

Lab Sample ID: LCS 600-261111/4

Matrix: Water

Analysis Batch: 261111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	70.48		mg/L		94	90 - 110

Preliminary



## QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

### General Chemistry

#### Analysis Batch: 261111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-182400-1	ITC-BB-01-20190323-11	Total/NA	Water	8000	
600-182400-2	ITC-BB-02-20190323-11	Total/NA	Water	8000	
600-182400-3	ITC-BB-03-20190323-11	Total/NA	Water	8000	
600-182400-4	ITC-BB-04-20190323-11	Total/NA	Water	8000	
600-182400-5	ITC-BB-05-20190323-11	Total/NA	Water	8000	
600-182400-6	ITC-BB-07-20190323-11	Total/NA	Water	8000	
600-182400-7	ITC-BB-08-20190323-11	Total/NA	Water	8000	
600-182400-8	ITC-BB-09-20190323-11	Total/NA	Water	8000	
MB 600-261111/3	Method Blank	Total/NA	Water	8000	
LCS 600-261111/4	Lab Control Sample	Total/NA	Water	8000	

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

**Client Sample ID: ITC-BB-01-20190323-11**

**Date Collected: 03/23/19 17:55**

**Date Received: 03/25/19 06:26**

**Lab Sample ID: 600-182400-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

**Client Sample ID: ITC-BB-02-20190323-11**

**Date Collected: 03/23/19 18:07**

**Date Received: 03/25/19 06:26**

**Lab Sample ID: 600-182400-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

**Client Sample ID: ITC-BB-03-20190323-11**

**Date Collected: 03/23/19 18:15**

**Date Received: 03/25/19 06:26**

**Lab Sample ID: 600-182400-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

**Client Sample ID: ITC-BB-04-20190323-11**

**Date Collected: 03/23/19 18:35**

**Date Received: 03/25/19 06:26**

**Lab Sample ID: 600-182400-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

**Client Sample ID: ITC-BB-05-20190323-11**

**Date Collected: 03/23/19 18:25**

**Date Received: 03/25/19 06:26**

**Lab Sample ID: 600-182400-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

**Client Sample ID: ITC-BB-07-20190323-11**

**Date Collected: 03/23/19 18:59**

**Date Received: 03/25/19 06:26**

**Lab Sample ID: 600-182400-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

TestAmerica Houston

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

**Client Sample ID: ITC-BB-08-20190323-11**

**Lab Sample ID: 600-182400-7**

**Date Collected: 03/23/19 19:25**

**Matrix: Water**

**Date Received: 03/25/19 06:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

**Client Sample ID: ITC-BB-09-20190323-11**

**Lab Sample ID: 600-182400-8**

**Date Collected: 03/23/19 19:35**

**Matrix: Water**

**Date Received: 03/25/19 06:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8000		1	2 mL	2 mL	261111	03/25/19 12:09	DTN	TAL HOU

## Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

## Accreditation/Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: Deer Park Water Samples

TestAmerica Job ID: 600-182400-1

### Laboratory: TestAmerica Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Texas	NELAP	6	T104704223-18-23	10-31-19

Preliminary Data

USEPA

DateShipped: 3/25/2019

CarrierName: START

AirbillNo: NA

## CHAIN OF CUSTODY RECORD

ITC Tank Fire

Contact Name: Jeff Wright

Contact Phone: 225-278-8406

No: 6-032419-160630-0012

Cooler #: 12

Lab: TestAmerica - Houston

Lab Phone: 713-690-4444

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	ITC-BB-01-20190323-11	BB-01	EPA 410.4 - Chemical Oxygen Demand	Surface Water	3/23/2019	17:55	1	500mL poly	6C H2SO4	N
	ITC-BB-01-20190323-11	BB-01	EPA 1664 - Oil and Grease	Surface Water	3/23/2019	17:55	2	1L Amber	6C HCL	N
	ITC-BB-01-20190323-11	BB-01	EPA 8270 - SVOCs	Surface Water	3/23/2019	17:55	2	250mL Amber	6C	N
	ITC-BB-02-20190323-11	BB-02	EPA 410.4 - Chemical Oxygen Demand	Surface Water	3/23/2019	18:07	1	500mL poly	6C H2SO4	N
	ITC-BB-02-20190323-11	BB-02	EPA 1664 - Oil and Grease	Surface Water	3/23/2019	18:07	2	1L Amber	6C HCL	N
	ITC-BB-02-20190323-11	BB-02	EPA 8270 - SVOCs	Surface Water	3/23/2019	18:07	2	250mL Amber	6C	N
	ITC-BB-03-20190323-11	BB-03	EPA 410.4 - Chemical Oxygen Demand	Surface Water	3/23/2019	18:15	1	500mL poly	6C H2SO4	N
	ITC-BB-03-20190323-11	BB-03	EPA 1664 - Oil and Grease	Surface Water	3/23/2019	18:15	2	1L Amber	6C HCL	N
	ITC-BB-03-20190323-11	BB-03	EPA 8270 - SVOCs	Surface Water	3/23/2019	18:15	2	250mL Amber	6C	N

Special Instructions: Fastest Available TAT

SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	D. [Signature] Weston	3/25/19 0626	[Signature]	3/25/19 1626	



600-182400 Chain of Custody

Contact Phone: 225-278-8406

Lab Phone: 713-690-4444

[illegible]

Special Instructions: Fastest Available TAT	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	D. Allen Western	3/25/19 0626	Sample	3/25/19 0:26	



## USEPA

Date Shipped: 3/25/2019

Carrier Name: START

Airbill No: NA

## CHAIN OF CUSTODY RECORD

ITC Tank Fire

Contact Name: Jeff Wright

Contact Phone: 225-278-8406

No: 6-032419-155311-0010

Cooler #: 10

Lab: TestAmerica - Houston

Lab Phone: 713-690-4444

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	ITC-BB-07-20190323-11	BB-07	EPA 410.4 - Chemical Oxygen Demand	Surface Water	3/23/2019	18:59	1	500mL poly	6C H2SO4	N
	ITC-BB-07-20190323-11	BB-07	EPA 1664 - Oil and Grease	Surface Water	3/23/2019	18:59	2	1L Amber	6C HCL	N
	ITC-BB-07-20190323-11	BB-07	EPA 8270 - SVOCs	Surface Water	3/23/2019	18:59	2	250mL Amber	6C	N
	ITC-BB-08-20190323-11	BB-08	EPA 410.4 - Chemical Oxygen Demand	Surface Water	3/23/2019	19:25	1	500mL poly	6C H2SO4	N
	ITC-BB-08-20190323-11	BB-08	EPA 1664 - Oil and Grease	Surface Water	3/23/2019	19:25	2	1L Amber	6C HCL	N
	ITC-BB-08-20190323-11	BB-08	EPA 8270 - SVOCs	Surface Water	3/23/2019	19:25	2	250mL Amber	6C	N
	ITC-BB-09-20190323-11	BB-09	EPA 410.4 - Chemical Oxygen Demand	Surface Water	3/23/2019	19:35	1	500mL poly	6C H2SO4	N
	ITC-BB-09-20190323-11	BB-09	EPA 1664 - Oil and Grease	Surface Water	3/23/2019	19:35	2	1L Amber	6C HCL	N
	ITC-BB-09-20190323-11	BB-09	EPA 8270 - SVOCs	Surface Water	3/23/2019	19:35	2	250mL Amber	6C	N

Special Instructions: Fastest Available TAT

SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	D. All Weston	3/25/19 06:26	Jeff Wright	3/25/19 10:26	

19 MAR 25 6:26

## Sample Receipt Checklist

Date/Time Received: \_\_\_\_\_

JOB NUMBER: \_\_\_\_\_

CLIENT: \_\_\_\_\_

UNPACKED BY: \_\_\_\_\_

CARRIER/DRIVER: \_\_\_\_\_

Custody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 3

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
BVN	Y / N	Y / N	0.4	1078	10.1	0.5
GIN	Y / N	Y / N	1.8	1	1	1.9
GIN	Y / N	Y / N	0.2	1	1	0.3
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☐ NO ☐ YESBase samples are > pH 12: ☐ YES ☐ NOAcid preserved are < pH 2: ☐ YES ☐ NO

pH paper Lot # \_\_\_\_\_

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

YES NO

## COMMENTS:



## Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 600-182400-1

Login Number: 182400

List Source: TestAmerica Houston

List Number: 1

Creator: Taylor, Jaquelyn R

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5, 1.9, 0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.